

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/35726

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H01L 31/115; G01T 1/24  
US CL : 250/370.13, 370.01

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 250/370.13, 370.01, 370.12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,P	US 2003/0209184 A1 (KAZANDJIAN et al.) 13 November 2003 (13.11.2003), see entire document.	1-7
A	US 2002/0192929 A1 (PELLICIARI) 19 December 2002 (19.12.2002), see entire document.	1-7
A	US 6,331,705 B1 (EISEN et al.) 18 December 2001 (18.12.2001), see entire document.	1-7
A	US 5,314,651 A (KULWICKI) 24 May 1994 (24.05.1994), see entire document.	1-7
A	US 5,187,116 A (KITAGAWA et al.) 16 February 1993 (16.02.1993), see entire document.	1-7
A	US 4,950,615 A (BASOI et al.) 21 August 1990 (21.08.1990), see entire document.	1-7

Further documents are listed in the continuation of Box C.

See patent family annex.

• Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

25 March 2004 (25.03.2004)

Date of mailing of the international search report

10 MAY 2004

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**Continuation of B. FIELDS SEARCHED Item 3:**

USPTO APS EAST search terms: radiarion detector, cadmium (Cd), zinc (Zn), tellurium (Te), co-doped, shallow donors, deep donors, II-VI, VII, rare earth.